

NetLINE™ Wireless Broadband Gateway

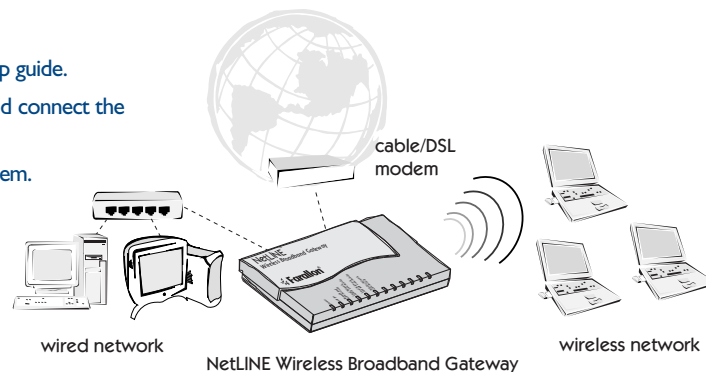
Setup Guide

Farallon's NetLINE Wireless Broadband Gateway connects to your cable/DSL modem, allowing computers on your local wired and wireless networks to share a single broadband connection to the Internet. This Setup Guide covers the most common situations for installing your NetLINE Wireless Broadband Gateway. Please see the user guide on the CD-ROM that came in your NetLINE Wireless Broadband Gateway package for complete setup and operation instructions.

Installation overview

NetLINE Wireless Broadband Gateway installation instructions begin on **page 2** of this setup guide.

- **Local network installation** – Insert the wireless PC card for wireless network access and connect the Ethernet port to a hub or switch on the wired network.
- **Broadband connection** – Connect the *Broadband Connection* port to the cable/DSL modem.
- **Client configuration** – Configure wired and wireless client computers to use the NetLINE Wireless Broadband Gateway.
- **NetLINE Wireless Gateway configuration** – The default settings of the NetLINE Wireless Broadband Gateway will work for many users, but it is recommended that you verify the Local Network and Broadband Network configurations as described in this setup guide. You must configure your NetLINE Wireless Broadband Gateway if your Internet Service Provider (ISP) is using the following for your Internet connection:
 - PPPoE (your ISP assigns dynamic addresses over Ethernet or uses EnterNet, MacPoet or WinPoet)
 - A fixed IP Address (your ISP has provided you with a static IP Address)



IMPORTANT NOTE! The complete user guide for the NetLINE Wireless Broadband Gateway is available on the CD-ROM included in your NetLINE package. Acrobat Reader 4.0, the software required to view the user guide, is also included on the CD-ROM.

Package contents

- NetLINE Wireless Broadband Gateway and power supply
- Wireless PC Card for use in the NetLINE Wireless Broadband Gateway
- NetLINE CD-ROM including the complete user guide, utilities and bookmarks for finding networking help online
- Straight-through Ethernet (UTP) cable
- Setup Guide

Getting help

Click the *Help* button in the NetLINE Wireless Broadband Gateway web utility to access online help. Farallon Technical Support can be reached by phone at (510) 346-8001 (7:00 am to 4:30 pm PST, Monday through Friday), or by email at info@farallon.com. Visit us at www.farallon.com anytime for product support, registration and information.



NetLINE™ Setup Guide

NetLINE Wireless Broadband Gateway installation

installing the NetLINE Wireless Broadband Gateway

Install the NetLINE Wireless Broadband Gateway at the center of your wireless network coverage area.

- Your cable/DSL modem and the NetLINE Wireless Broadband Gateway should be powered OFF before you begin installation.
- Leave your cable/DSL modem connected to its phone line or cable input.

1. Insert the supplied Wireless PC card into the *Wireless PCMCIA Card* slot on the rear panel of the NetLINE Wireless Broadband Gateway. Insert the card label-side up, and make sure the card is inserted securely. It should click into position.

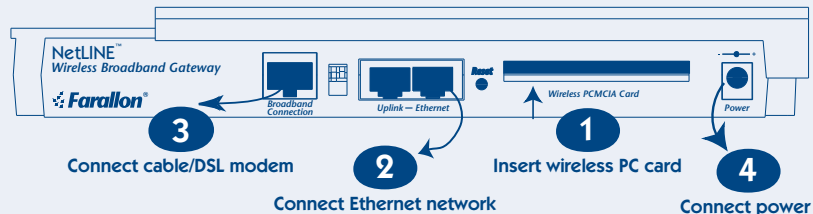
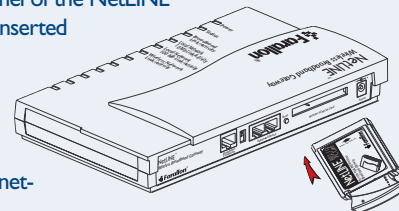
2. Use the provided Ethernet cable (or any standard straight-through Ethernet cable) to connect the *Ethernet* port on the NetLINE Wireless Broadband Gateway to a hub or switch on your local network. If you do not have a network hub or switch, use the *Uplink* port to connect the NetLINE Wireless Broadband Gateway directly to an Ethernet-enabled computer. Do NOT use the *Ethernet* and *Uplink* ports at the same time.

3. Use the Ethernet cable provided with your cable/DSL modem to connect the modem to the *Broadband Connection* port on the NetLINE Wireless Broadband Gateway.

4. Turn your cable/DSL modem ON.

5. Connect the NetLINE Wireless Broadband Gateway's power adapter. Use only the power adapter provided by Farallon.

When powered on, the NetLINE Wireless Broadband Gateway's *Status* LED should flash red briefly and then turn off.



The NetLINE Wireless Broadband Gateway is now installed. Next, configure the client computers on your local network to use DHCP so that the NetLINE Wireless Broadband Gateway can assign IP Addresses on your local network.

- See page 3 for DHCP client setup instructions.

It is preferable to use DHCP, but if you are unable to do so you can assign a fixed IP Addresses for each computer on the local network.

- See page 4 for fixed IP Address client setup instructions.

NetLINE™ Setup Guide

Client configuration using DHCP

configuring client computers

It is recommended that all wired and wireless client computers be set up to use DHCP. If you cannot use DHCP on your local network, see page 4. To set your Macintosh or Windows PC up to use DHCP see instructions below.

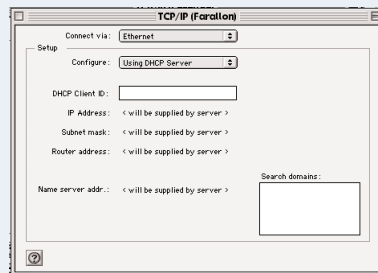
Using DHCP for Macintosh clients

1. Open the TCP/IP Control Panel.
2. Write down any settings that appear:

IP Address: _____

Router address: _____

Name server addr: _____

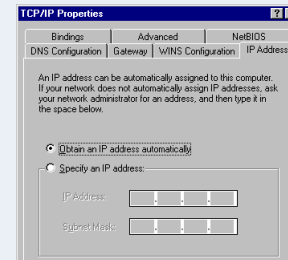


3. Select *Ethernet* (or *Wireless* or *AirPort* or whichever port you are using to connect this computer to your local network) from the *Connect via* menu.
4. Select *Using DHCP Server* from the *Configure* menu. Leave the *DHCP Client ID* field blank.
5. Close the TCP/IP panel, saving your settings.

Next, see *Client connection* on **page 5** of this user guide.

Using DHCP for Windows PC clients

1. Right-click on the Network Neighborhood icon on the desktop, then select Properties. If TCP/IP is not listed, you will need to add it, using your original Windows CD or .cab files. After TCP/IP is added, exit Network Properties, restart your PC, and return to the Network configuration panel.
2. Select the TCP/IP > Network card entry. Click the Properties button.



3. Write down any settings that appear on the *IP Address* and *DNS Configuration* screens:

IP Address: _____

DNS Server: _____

4. Select the *Obtain an IP address automatically* button.
5. Click the *DNS Configuration* tab and check *Disable DNS*.
6. Select Start Menu > Settings > Control Panel > Internet Options. Select the *Connection* tab, click the *Setup* button and select *I want to set up my Internet connection manually, or I want to connect through a local area network (LAN)*. Click *Next*.
7. Select *I connect through a local area network (LAN)* and click *Next*.
8. Uncheck all of the boxes on the *Local area network Internet Configuration* screen. Check *No* when prompted *Do you want to set up an Internet mail account now?*. Click *Finish*.

Next, see *Client connection* on **page 5** of this user guide.

NetLINE™ Setup Guide

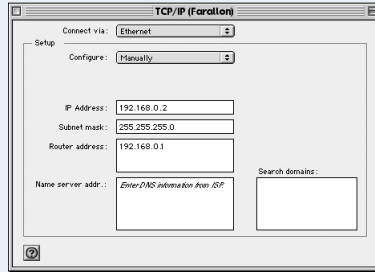
Client configuration using fixed IP Addresses

configuring client computers

If using DHCP (as described on page 3) does not work for your local network, you can manually assign each computer a specific IP Address as described below.

Using fixed IP Addresses for Macintosh clients

1. Open the TCP/IP Control Panel.



2. Select *Ethernet* (or *Wireless* or *AirPort* or whichever port you are using to connect this computer to your local network) from the *Connect via* menu.
3. Select *Manually* from the *Configure* menu.
4. Enter the following information into the TCP/IP panel:

IP Address: 192.168.0.x, where *x* is any number from 2 to 252.
Each computer on the local network needs a distinct IP Address.

Subnet mask: 255.255.255.0

Router address: 192.168.0.1

Name server address: Enter the **Domain Name Server** information from your ISP.

Search domains: Enter the information from your ISP.

5. Close the TCP/IP Control Panel, saving your settings.
Next, see *Client connection* on **page 5** of this user guide.

Using fixed IP Addresses for Windows PC clients

1. Right-click on the *Network Neighborhood* icon on the desktop, then select *Properties*. If TCP/IP is not listed, you will need to add it, using your original Windows CD or .cab files. After TCP/IP is added, exit Network Properties, restart your PC, and return to the Network configuration panel.

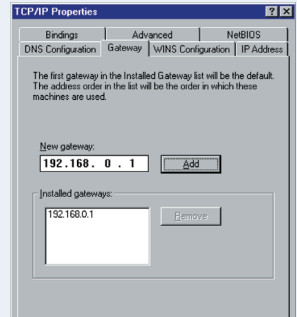
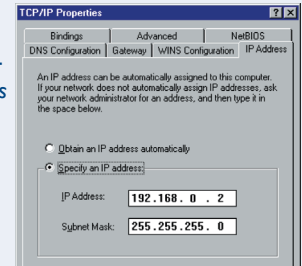
2. Select the TCP/IP > Network card entry, in the *Network configuration* panel. Click the *Properties* button. Click the *IP Address* tab and enter the following:

IP Address: 192.168.0.x, where *x* is any number from 2 to 252. Each computer on the local network needs a distinct IP Address.

Subnet mask: 255.255.255.0

3. Click the *DNS Configuration* tab and enter the DNS information provided by your ISP.
4. Click the *Gateway* tab and enter the IP Address of the NetLINE Wireless Broadband Gateway into the Gateway IP Address field: 192.168.0.1.
5. Click OK and restart the PC.

Next, see *Client connection* on **page 5** of this user guide.



NetLINE™ Setup Guide

Client connection

connecting
client
computers

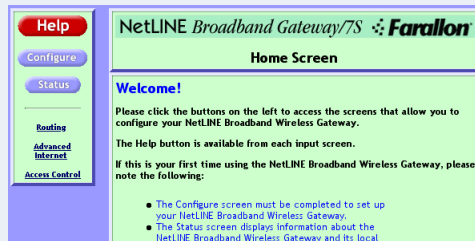
The web utility allows you to configure the NetLINE Wireless Broadband Gateway using a browser such as Netscape Navigator or Microsoft Internet Explorer. The NetLINE Wireless Broadband Gateway's default configuration may work with your network, allowing your client computers to connect to the Internet without further configuration, but it is recommended that you verify the Local Network and Broadband Network Port configurations as described in this setup guide.

Wired network clients

1. Open the web browser on a computer connected to the local wired network. Internet access may be temporarily unavailable. In the Address or Location box, enter **http://192.168.0.1** and hit return.



2. The *Home* screen of the NetLINE Wireless Broadband Gateway web utility will appear:



To change or verify the default configuration of the NetLINE Wireless Broadband Gateway, see **page 6**.

Wireless network clients

1. Follow your wireless PC card's instructions for connecting to a wireless access point. Some cards (like the AirPort or the SkyLINE card) will automatically find the NetLINE Wireless Broadband Gateway if it is the only wireless access point on the network.

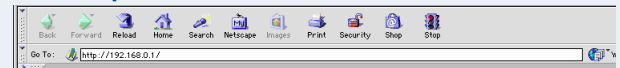
You may be required to configure the wireless PC card with this information about the NetLINE Wireless Broadband Gateway:

SSID: enter **default**

Mode: enter **Infrastructure mode**

WEP: By default, WEP is disabled. See the complete NetLINE Wireless Broadband Gateway user guide for WEP instructions.

2. Open the web browser on the wireless computer. Internet access may be temporarily unavailable. In the Address or Location box, enter **http://192.168.0.1** and hit return.



3. The *Home* screen of the NetLINE Wireless Broadband Gateway web utility will appear:



To change or verify the default configuration of the NetLINE Wireless Broadband Gateway, see **page 6**.

NetLINE™ Setup Guide

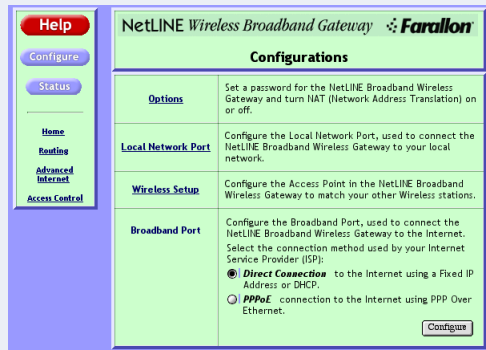
NetLINE Wireless Broadband Gateway configuration

configuring the Local Network Port

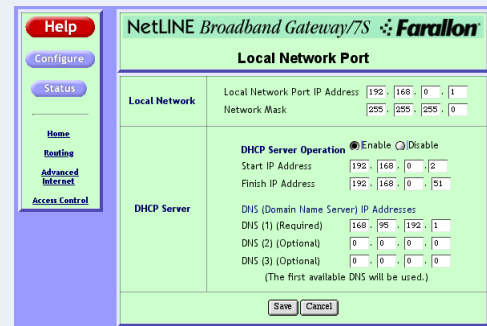
The default setting for the Local Network Port will work for many users, but it is recommended that you change the Local Network Port settings to match the DNS information from your ISP as described below. See the complete user guide on the CD-ROM for detailed configuration instructions and troubleshooting steps.

Configure the Local Network Port

1. Connect to the *Home* screen of the NetLINE Wireless Broadband Gateway web utility as described in *Client connection* on page 5 of this guide.
2. Click the *Configure* link on the left side of your screen.



3. Click the *Local Network Port* link on the *Configuration* screen to open the *Local Network Port* configuration screen



4. The default DNS information (**168.95.192.1**) appears in the *DHCP Server* section in the *DNS (1) (Required)* field. Replace this default DNS information with the DNS information from your ISP. It is recommended that you leave the rest of the IP data on this screen unchanged.

Note: If you do not know your ISP's *DNS* or *Name server* address information from your ISP, you can leave the default *DNS* number in place.

5. Save the data using the *Save* button, then click *Finished* when prompted. Click the *Configure* button to return to the *Configuration* screen.

Next, configure your *Broadband Network Port* as described on **page 7** of this setup guide.

NetLINE™ Setup Guide

NetLINE Wireless Broadband Gateway configuration

configuring
the
Broadband
Network Port
for DHCP

If your ISP has not given you a static IP Address, then you are using DHCP to connect to the Internet. If PPPoE is not mentioned in your ISP's documentation, read *DHCP using a direct connection* on this page. If your ISP is using DHCP with PPPoE (EnterNet, MacPoet or WinPoet) see *DHCP using PPPoE* on this page. If your ISP has given you a fixed IP Address, see page 8.

DHCP using a direct connection

1. Open the *Configuration* page of the web utility. Leave the *Broadband Port* at the default setting of *Direct Connection* to the Internet and click the *Configure* button.

The screenshot shows the 'Broadband Port' configuration page. It has a title bar 'Broadband Port' and a description: 'Configure the Broadband Port, used to connect the NetLINE Broadband Wireless Gateway to the Internet. Select the connection method used by your Internet Service Provider (ISP):'. There are two radio buttons: 'Direct Connection' (selected) and 'PPPoE'. Below the radio buttons is a 'Configure' button.

2. Enter all of the necessary information provided by your ISP.

The screenshot shows the 'NetLINE Broadband Gateway/7S' configuration page. The title bar is 'NetLINE Broadband Gateway/7S Farallon'. The main title is 'Broadband Port - Direct Connection'. There are several fields: 'Device Name' (SC000175), 'Hardware (MAC) Address' (00-c0-02-00-01-76), 'IP Address' (DHCP (Dynamic IP Address) selected), 'Fixed IP Address' (disabled), 'IP Address' (0 . 0 . 0 . 0), 'Network Mask' (0 . 0 . 0 . 0), and 'Gateway IP Address' (0 . 0 . 0 . 0). There are buttons for 'Retrieve Defaults', 'Save', and 'Cancel'.

Device Name: Enter any *host* name, network name or client ID given to you by your ISP.

Hardware (MAC) Address: Information for your ISP if they ask for the MAC Address of the device connected to the cable/DSL modem.

IP Address: Leave the *DHCP (Dynamic IP Address)* button enabled.

3. Save the data using the *Save* button, then click *Finished* when prompted. Quit the browser.

You should now be able to connect to the Internet from the computers on your local network. Start your browser and connect to a web page such as www.farallon.com.

DHCP using PPPoE

1. Open the *Configuration* page of the web utility. In the *Broadband Port* section, select the *PPPoE* radio button, then click the *Configure* button.

The screenshot shows the 'Broadband Port' configuration page. It has a title bar 'Broadband Port' and a description: 'Configure the Broadband Port, used to connect the NetLINE Broadband Wireless Gateway to the Internet. Select the connection method used by your Internet Service Provider (ISP):'. There are two radio buttons: 'Direct Connection' (disabled) and 'PPPoE' (selected). Below the radio buttons is a 'Configure' button.

2. Enter the information for your connection from your ISP into the *Broadband Port* screen, including the *User Name* (i.e. *you@yourdomain.com*) and *Password* you currently use to connect to your ISP. Leave the *Dynamic* button next to *IP Address* provided by ISP selected.

The screenshot shows the 'NetLINE Broadband Gateway/7S' configuration page. The title bar is 'NetLINE Broadband Gateway/7S Farallon'. The main title is 'Broadband Port - PPPoE'. There are several fields: 'Account/User Name' (guest), 'Password', 'Verify password', 'IP Address provided by ISP' (Dynamic (allocated on connection) selected), 'Fixed' (0 . 0 . 0 . 0), 'Idle Time-out (minutes)' (60), 'Connect On Demand' (checked), and 'Enable Connect on Demand' (checked). There is a note: 'NOTE: If the Enable Connect on Demand box above is not checked, you must use the Connect button on the "Status" screen to establish a connection.' There are buttons for 'Save' and 'Cancel'.

3. Save the data using the *Save* button, then click *Finished* when prompted. Quit the browser.

You should now be able to connect to the Internet from the computers on your local network. Start your browser and connect to a web page such as www.farallon.com.

NetLINE™ Setup Guide

NetLINE Wireless Broadband Gateway configuration

configuring the Broadband Network Port for fixed IP

Using a fixed IP Address

1. Open the *Configuration* page of the web utility. In the *Broadband Port* section, click the correct radio button for your connection to the Internet, (*Direct Connection* or *PPPoE*) then click the *Configure* button.

Broadband Port

Configure the Broadband Port, used to connect the NetLINE Broadband Wireless Gateway to the Internet. Select the connection method used by your Internet Service Provider (ISP).

☒ **Direct Connection** to the Internet using a Fixed IP Address or DHCP.

☐ **PPPoE** connection to the Internet using PPP Over Ethernet.

[Configure](#)

2. Enter all of the necessary information provided by your ISP.

NetLINE Broadband Gateway/7S Farallon

Broadband Port - Direct Connection

Device Name: SC000175

Hardware (MAC) Address: 00-c0-02-00-01-76 Hardware (MAC) Address Screen

IP Address: ☐ DHCP (Dynamic IP Address) ☒ Fixed IP Address

Fixed IP Address

IP Address: 0 . 0 . 0 . 0

Network Mask: 0 . 0 . 0 . 0

Gateway IP Address: 0 . 0 . 0 . 0

[Refresh Defaults](#) [Save](#) [Cancel](#)

Device Name: Enter any **host** name, network name or client ID given to you by your ISP.

Hardware (MAC) Address: Information for your ISP if they ask for the MAC Address of the device connected to the cable/DSL modem.

IP Address: Click the *Fixed IP Address* button and enter the required data from your ISP including *IP Address*, *Network Mask* and *Gateway IP Address*.

3. Save the data using the *Save* button, then click *Finished* when prompted. Quit the browser.

You should now be able to connect to the Internet from the computers on your local network. Start your browser and connect to a web page such as www.farallon.com.

Using a fixed IP Address with PPPoE

1. Open the *Configuration* page of the web utility. In the *Broadband Port* section, click the *PPPoE* radio button, then click the *Configure* button.

Broadband Port

Configure the Broadband Port, used to connect the NetLINE Broadband Wireless Gateway to the Internet. Select the connection method used by your Internet Service Provider (ISP).

☐ **Direct Connection** to the Internet using a Fixed IP Address or DHCP.

☒ **PPPoE** connection to the Internet using PPP Over Ethernet.

[Configure](#)

2. Enter the information for your connection from your ISP into the *Broadband Port* screen, including the *User Name* (i.e. *you@yourdomain.com*) and *Password* you currently use to connect to your ISP.
3. Click the *Fixed* button next to *IP Address provided by ISP* and enter the IP Address from your ISP into the field provided.

NetLINE Broadband Gateway/7S Farallon

Broadband Port - PPPoE

Account/User Name: youname@yourdomain.com

Password:

Verify password:

IP Address provided by ISP: ☐ Dynamic (allocated on connection) ☒ Fixed 0 . 0 . 0 . 0

Idle Time-out (minutes): 15 (enter 0 to disable time-out)

Connect On Demand: ☐ Enable Connect on Demand

NOTE: If the *Enable Connect on Demand* box above is not checked, you must use the *Connect* button on the "Status" screen to establish a connection.

[Save](#) [Cancel](#)

4. Save the data using the *Save* button, then click *Finished* when prompted. Quit the browser.

You should now be able to connect to the Internet from the computers on your local network. Start your browser and connect to a web page such as www.farallon.com.